



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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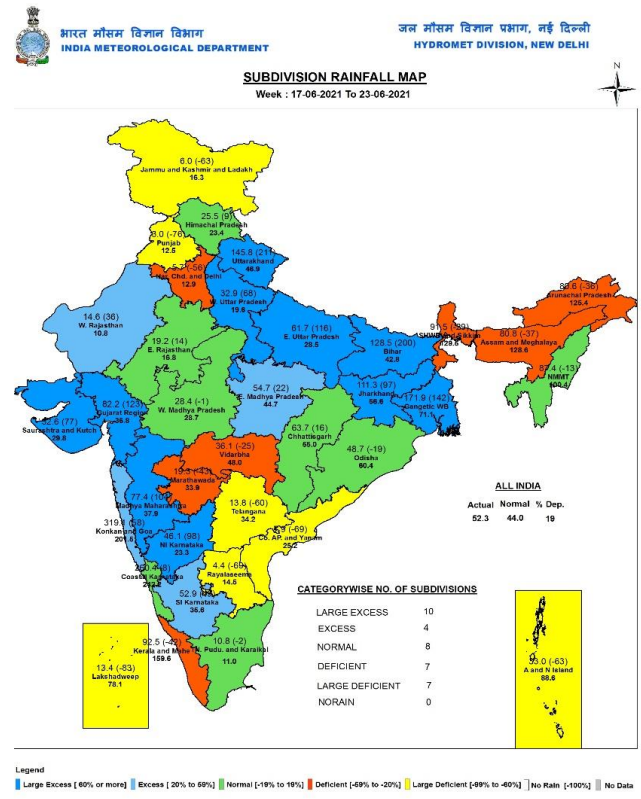
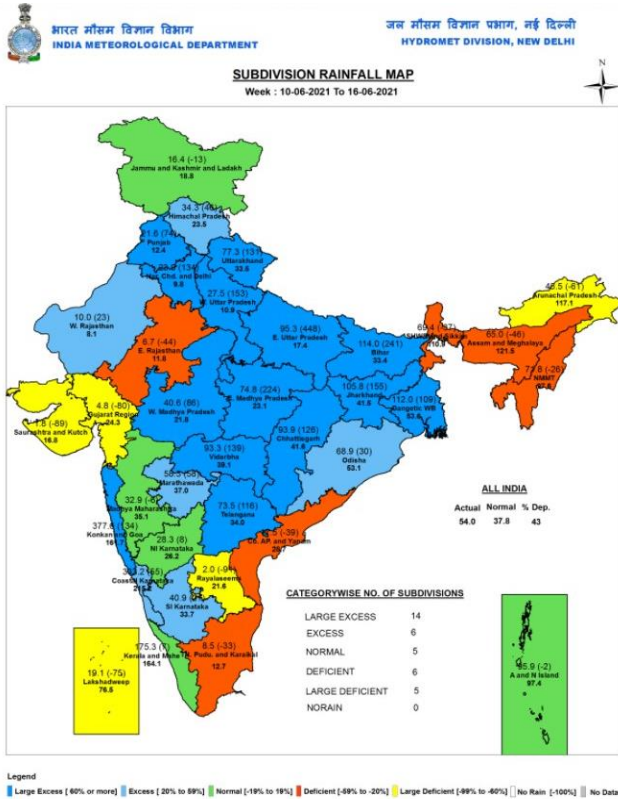
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (10th to 23rd June, 2021)

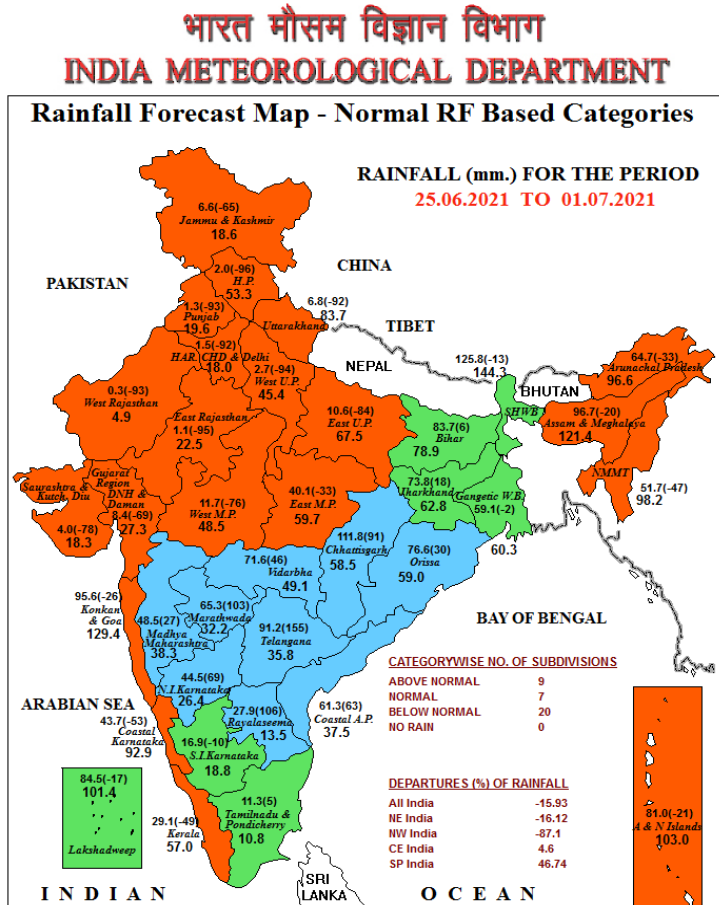


- Normal or above normal rainfall occurred in both the weeks in Gangetic West Bengal, Odisha, Jharkhand, Bihar, Uttar Pradesh, Uttarakhand, Himachal Pradesh, West Rajasthan, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Chhattisgarh and Karnataka.
- Normal or above normal rainfall occurred in either of the two weeks in Haryana, Chandigarh & Delhi, Punjab, Jammu & Kashmir and Ladakh (UTs), Marathwada, Vidarbha, Telangana, Kerala & Mahe, Nagaland Manipur Mizoram & Tripura (NMMT), East Rajasthan, Gujarat, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks/either of the two weeks over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Andhra Pradesh and Lakshadweep.

Extended Range Forecast System

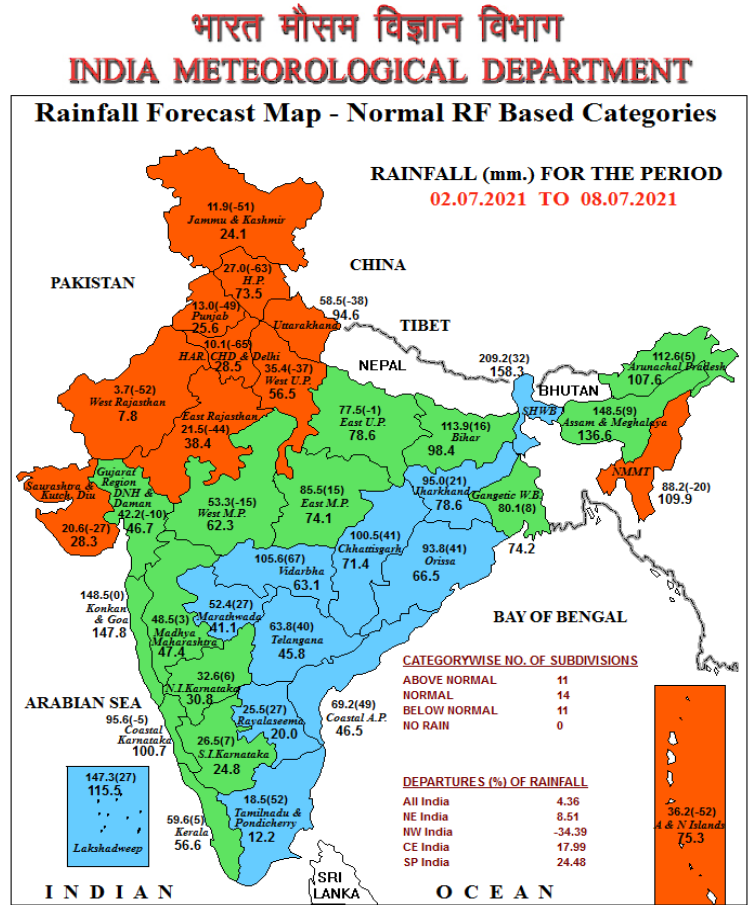
Rainfall forecast maps for the next 2 weeks (IC -23 June)

(25th June to 8th July, 2021)



LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN [-100%] □ NO DATA

NOTES:
 [a] Rainfall figures are based on MME Forecast data.
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

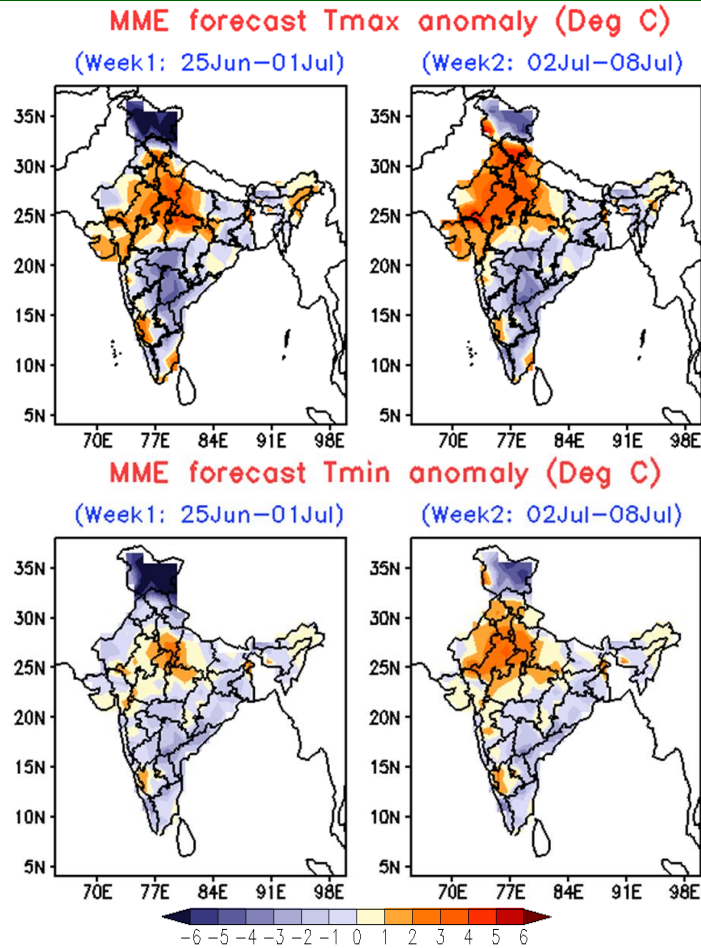


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NOTES:
 [a] Rainfall figures are based on MME Forecast data.
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

- **Week1 (25.06.2021 to 01.07.2021):** Below normal rainfall over Northwest India, MP, Gujarat, UP, west coast and also Northeast India.
- **Week 2 (02.07.2021 to 08.07.2021):** slight improvement of rainfall over northwest India, however, it will be below normal over the region. Remaining regions will be normal to slightly above normal.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C)forecast
for next 2 weeks(IC – 23 June)
(25th June to 8thJuly, 2021)**



Maximum Temperature (Tmax)

- **Week 1 (25.06.2021 to 01.07.2021) and Week 2 (02.07.2021 to 08.07.2021):** Mainly below normal Tmax in week 1 and week 2 over south-eastern parts of India. However, above normal Tmax in Northwest India.

Minimum Temperature (Tmin)

- **Week 1 (25.06.2021 to 01.07.2021):** Mainly normal to below normal. However, some pockets of north India will be above normal.
- **Week 2 (02.07.2021 to 08.07.2021):** It is mostly normal to slightly below normal Tmin patterns over south eastern parts of the country. However, northwest India will be above normal.

Strategic Agricultural Planning based on rainfall during next two weeks till 08 July 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 384.0 mm (-27% deficit) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) is below normal for week-1 and normal for week-2.

- Due to high humid weather condition, there is a chance of quick wilt disease in black pepper. To manage, it is advised to apply *Trichoderma* enriched mixture @ 2.5 kg per plant.
- During the rainy season, proper drainage facilities should be provided to prevent rhizome rot in crops like ginger and turmeric. The incidence of disease can be prevented by applying *Pseudomonas* solution.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 57.7 mm (28% excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) is normal for week-1 and above normal for week-2.

- Prevailing weather condition is favourable for aphids and thrips incidence in chilli. To manage, it is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Weather condition is also favourable for mealy bug incidence in Guava and Mango. To manage, it is advised to apply Triozophos 2 ml + Neem oil 5 ml/1 or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/1 or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

Maharashtra

Rainfall received over Madhya Maharashtra is 173.2 mm (43% excess), Marathwada is 140.8 mm (29% excess), and Vidharbha is 176.8 mm (41% excess) and Konkan region 882.7 mm (69% large excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) over Konkan is below normal and Madhya Maharashtra, Vidharbha, and Marathwada is above normal for week-1 and over Konkan and Madhya Maharashtra is normal and above normal over Vidharbha and Marathwada for week-2.

Marathwada

- After receiving sufficient amount of rainfall and under adequate available soil moisture sowing of pigeon pea, black/green gram, maize and groundnut is advised.

Vidharbha

- Under prevailing weather condition, sowing of cotton crop is advised with desi cotton varieties AKA-5, AKA-7 and AKA-8, and American variety AKH-081, AKH-09-5, PKV Rajat and AKH 8828.
- Due to the chances of thunderstorm with lightning and gusty wind, it is advised to keep the farm

animals indoor.

Madhya Maharashtra

- Under sufficient moisture condition, sowing of short duration pulses or cereals like cowpea, green gram, black gram, moth bean, urdbean and bajra is advised.
- For the management of wilt and root rot diseases in pigeonpea, green gram, blackgram, groundnut, soybean, it is advised to treat the seeds with Thiram + Carbendazim @ 2 g/kg or *Trichoderma* @ 5 g/kg and after chemical treatment, treat the seed with *Rhizobium* and PSB @ 25g/kg before sowing.

Konkan

- Due to cloudy and rainy weather conditions, there is a possibility for incidence of anthracnose disease on new flush of mango. If incidence is noticed, it is advised to spray 1% Bordomixture or 0.25% Copper oxychloride @ 25 g or 0.1% Carbendazim @ 10 g per 10 litres of water during clear weather.
- Due to chances of light rainfall, it is advised to complete the sowing of groundnut crop with recommended varieties viz., SB-11, TAG-24, Phule pragati, Konkan gaurav, TG-26, Konkan Trombe Tapora.

Hisar

Amount of rainfall received over Hisar is 46.2 mm (32% excess) during 01 June 2021 - 25 June 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) over Hisar is below normal for week-1 and week-2.

- Due to hot and dry weather condition, farmers are advised to apply light irrigation in planted vegetable crops and fruit plants as per requirement.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

Karnataka

Rainfall received during 01 June 2021 - 25 June 2021 over South Interior Karnataka is 151.8 mm (30% excess) and North Interior Karnataka is 133.1 mm (51% excess). The extended range weather forecast (rainfall) for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) over South Interior Karnataka is normal and North Interior Karnataka is above normal for week-1 and normal over South Interior Karnataka and North Interior Karnataka for week-2.

South Interior Karnataka

- After receiving sufficient rainfall, under mono cropping, sowing of long duration crops like red gram is recommended with varieties BRG-1, 2, 4 & 5, TTB-7 and Castor crop with varieties DCH-9, 32 & 177. For maize Ganga-11, Deccan-103, Vijaya composite, Composite NAC- 6004, 6002, Hybrid-Nityashree (NAH-2049) varieties are recommended.

- For the management of fruit fly damage in mango, spray of Carbaryl @ 4 g/litre of water is advised.

North Interior Karnataka

- Under prevailing weather condition, sowing of bajra, pigeonpea, groundnut (bunch type), greengram, maize, Bt. cotton, chilli, onion, sesamum, and navane is advised.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

Uttar Pradesh

Rainfall received during 01 June 2021 - 25 June 2021 over East Uttar Pradesh 193.3 mm (167% large excess) and West Uttar Pradesh is 70.4 mm (41% excess). The extended range weather forecast (rainfall) for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and below normal over West Uttar Pradesh and normal over East Uttar Pradesh week-2.

Western Uttar Pradesh

- Under prevailing weather condition, farmers are advised to sow short duration rice with recommended varieties N-118, N-80, N-1, N-2, N-97, Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and also scented rice varieties T-3, Pusa basmati-1, Pusa sungandh-4 & 5, Malviya sugandh-4 & 3 and Malviya basmati 10 & 9.
- Under prevailing rainy weather condition, farmers are advised to sow *kharif* maize. Recommended varieties of Hybrid are Dakan-107, Malveya-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113 and Composite varieties are Novjoti, Pusa-2, Prabhat and Azad uttam.

Eastern Uttar Pradesh

- Under prevailing weather condition, there is a chance of downy mildew in cucurbits and other vegetables. To prevent, it is advised to spray Mancozeb @ 2g/litre.
- Under prevailing weather condition, sowing of *kharif* vegetables and nursery of brinjal, chillis and cauliflower is advised.

Jammu

Amount of rainfall received over Jammu is 36.5 mm (-37% deficit) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to prepare land for the sowing of rainy season vegetables like bitter gourd, sponge gourd, bitter melon, okra. Transplanting of brinjal, tomato and chilli crop to the main field is also advised.
- For the management of leaf hopper and mango hopper, it is advised to spray Imidacloprid @

0.3ml/litre water and Dimethoate @ 1ml/litre during clear weather.

West Bengal

Amount of rainfall received over West Bengal is 341.8 mm (70% large excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over West Bengal is normal for week-1 and week-2.

- For the management of jute hairy caterpillar and semi looper in jute crop, it is advised to apply Chlorpyrifos @ 1.5 ml per litre of water.
- Under prevailing weather condition, farmers are advised to prepare the nursery for chilli, *kharif* cucurbits, early cauliflower and brinjal crop.

Odisha

Amount of rainfall received over Odisha is 167.8 mm (1% excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Odisha is above normal for week-1 and week-2.

- For the management of the infestation of Fall army worm, it is advised to treat 1 kg seeds with 4 ml Cyantranilprole 19.8% + Thiamethoxam 19.8% FS.
- Under prevailing weather condition, sowing of pigeon pea crop is advised with varieties PRG-235, PRG 176, VL ARHAR1, T-Arhar.

Assam

Amount of rainfall received over Assam is 328.7 mm (-20% deficit) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Assam is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, infestation of stem borer may be observed in *kharif* maize. To control, it is advised to apply Fenitrothion 50 EC solution @ 1.0 litre/200-250 litres of water per 7.5 bigha land.
- Under prevailing weather condition, it is advised to maintain proper drainage channel in citrus orchard to drain out excess amount of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 244.4 mm (87% large excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of maize, finger millet, soybean, urd, amaranth is advised.
- To control the insect/pest in vegetable crop fields, it is advised to install pheromone trap, light

trap, and yellow strip in the crop fields.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 218.3 mm (57% excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Due to chances of rainfall, farmers are advised for sowing of rice on nursery bed, soybean, pigeon pea and maize with proper drainage channel facilities in the fields.
- Under prevailing weather condition, it is advised to complete the transplanting of tuberous crops such as arbi, jimikand, yam, dagkand, banda.
- Farmers are also advised to vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 187.5 mm (94% large excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Madhya Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, nursery bed preparation for sowing of chilli and brinjal seeds in the nursery is advised.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

Gujarat

Amount of rainfall received over Gujarat is 119.7 mm (28% excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Gujarat is below normal for week-1 and normal for week-2.

- For the management of citrus canker, it is advised to spray Copper oxychloride @ 40 g or Streptocycline 1.5 g in 10 litres of water.
- With the onset of monsoon, it is advised to vaccinate the animals against the diseases like Foot and Mouth disease (FMD), Haemorrhagic septicaemia (HS) and Black quarter (BQ).

Bihar

Amount of rainfall received over Bihar is 285.2 mm (136% large excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Bihar is normal for week-1 and week-2.

- Under prevailing weather, land preparation for sowing of pigeon pea in upland areas is advised. Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13 varieties of pigeon pea are

recommended for North Bihar.

- For the management of leaf feeder and fruit borer pest in summer vegetables, spraying of Dimethoate 30 EC @1-1.5ml/L of water is advised in clear days.

Rajasthan

Amount of rainfall received over Rajasthan is 45.6 mm (4% excess) during 01 June 2021 - 25 June 2021. The extended range weather forecast (rainfall) provided for next two weeks (25 June - 01 July 2021 and 02 - 08 July 2021) on rainfall over Rajasthan is below normal for week-1 and week-2.

- Sowing of bajra & moth in western part of Rajasthan is advised. Recommended improved varieties of bajra are HHB-67, Raj-171, ICMH-356, RHB-121, RHB-173, RHB-154 &177 and improved varieties of moth are RMO-257, RMO-225, RMO-425, RMO-423, and RMO-40.

Disclaimer:

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